

## PATENT ABSTRACTS OF JAPAN

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(21)Application number : 53-023582 (71)Applicant : TORAY IND INC  
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**(54) SPINNERET FOR THREE-COMPONENT ISLAND-IN-SEA TYPE COMPOSITE FIBERS**

**(57)Abstract:**

**PURPOSE:** The title spinneret designed to spin three-component island-in-sea type composite fibers, wherein the island components comprise two types of polymers industrially smoothly.

**CONSTITUTION:** The polymer A, one of the island components, is fed from the holes 1 through the pipes 3 the communicating holes 5 and 6 to the funnel 8. The other island component B is fed from the hole 10 through the space 11 and the upper annular parts, joined to the polymer A which flows through the pipes 3, and extruded through the orifice 9. The sea component C is passed through the hole 12, space 13 and the annular parts between the pipes 6 and the holes 7, and joined to the primary composite streams, which flow through the pipes 6 and consist of the polymers A and B, to form secondary composite streams wherein the primary composite streams are surrounded by the polymer C. The streams are then led to the funnel 8, and a plurality of secondary composite streams are collected and extruded through the orifice 9 into a composite fiber.

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